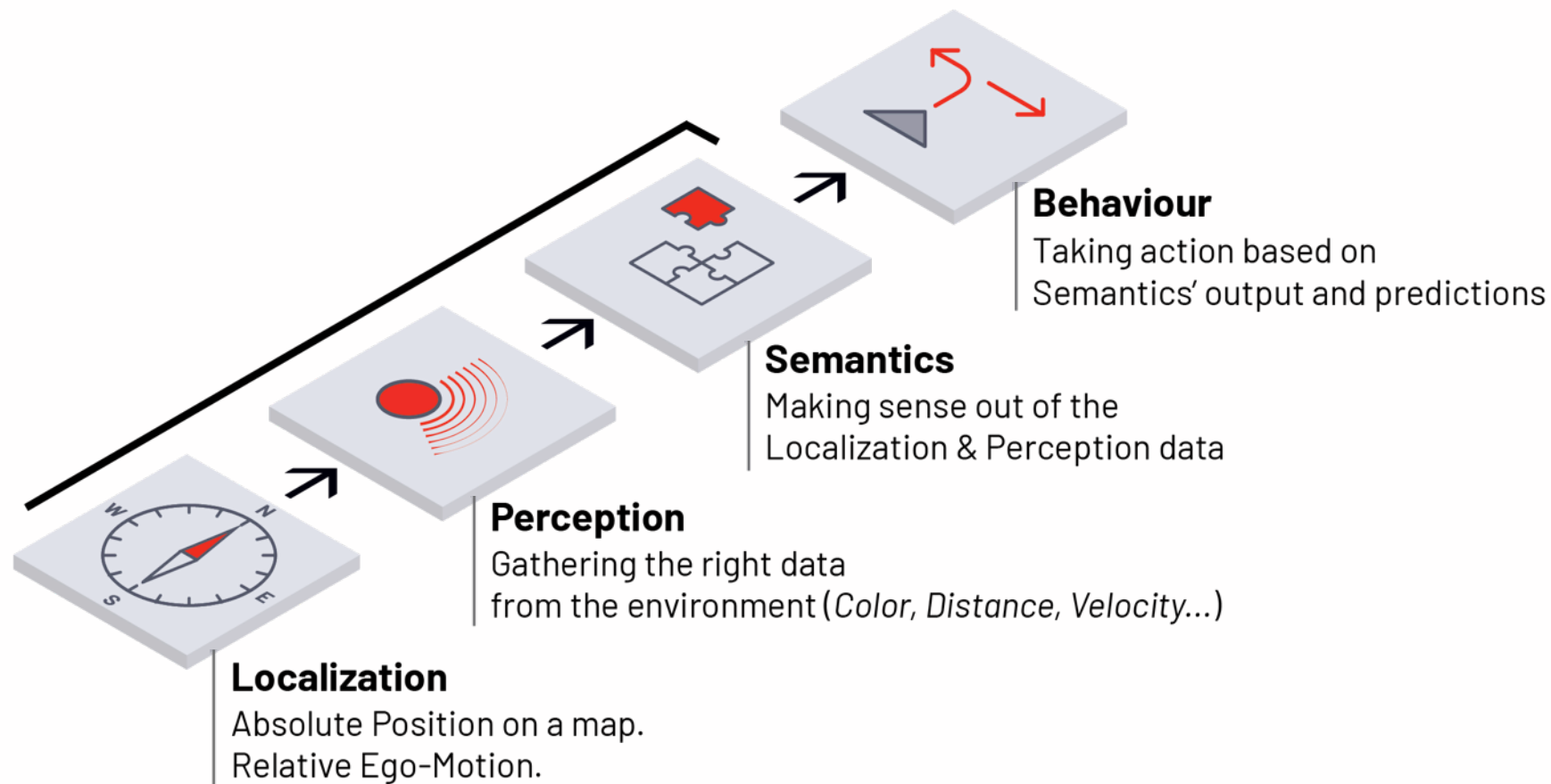


Bringing **Full Situation Awareness** to Smart Machines

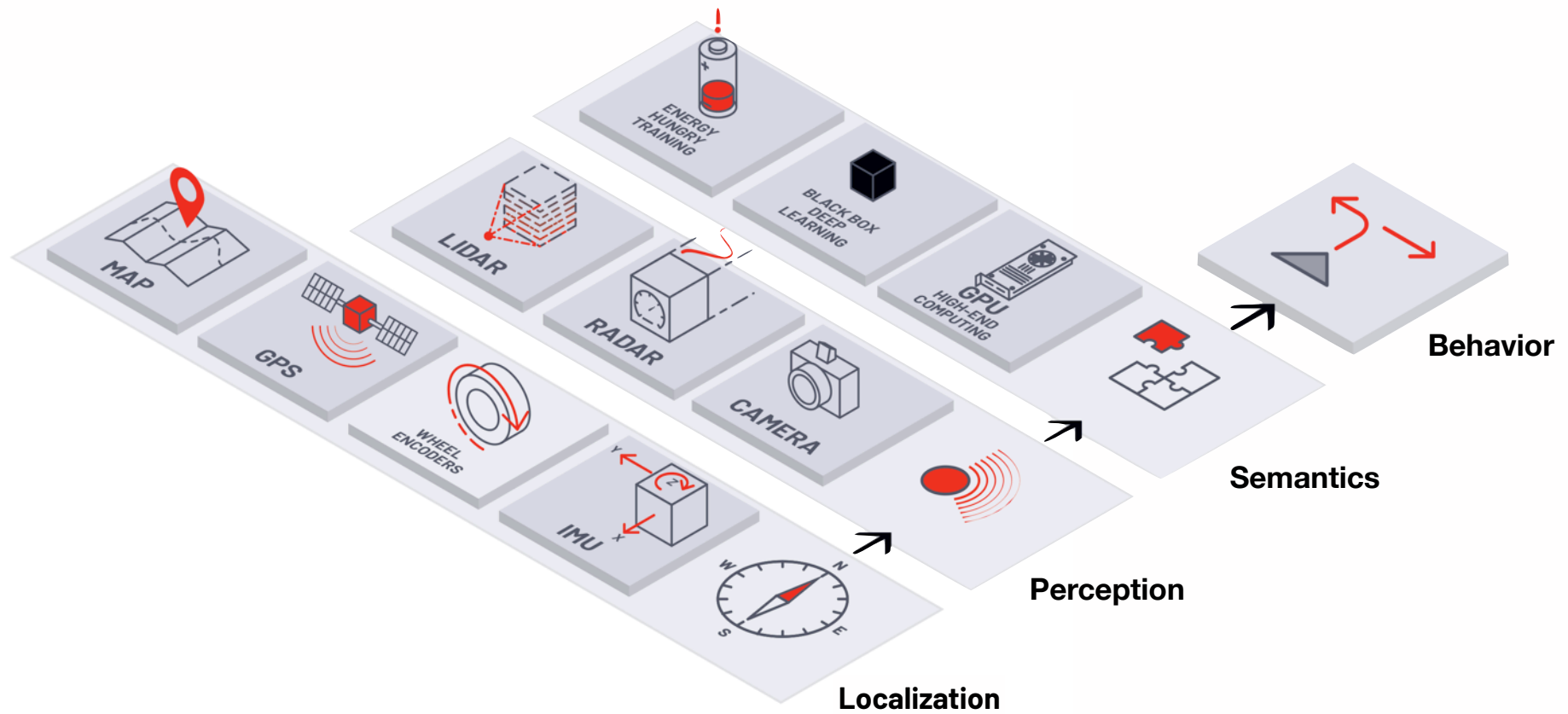
 **outsight**

Raul Bravo - raul@outsight.tech

The problem to be solved

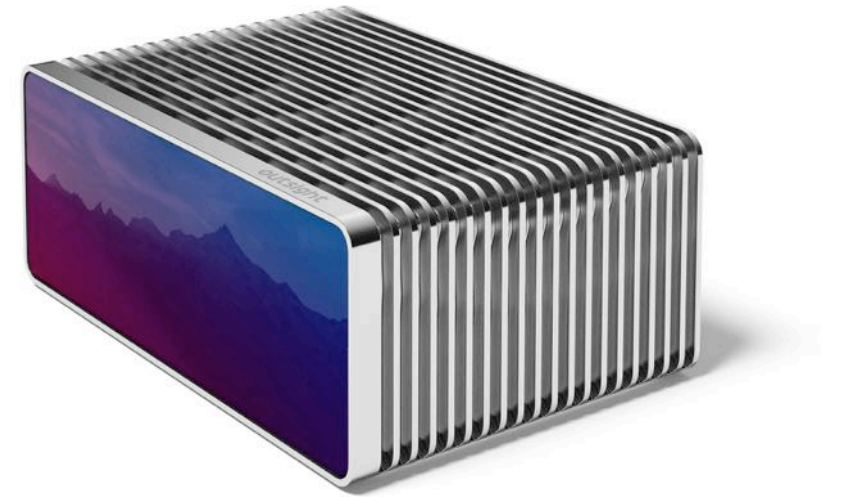
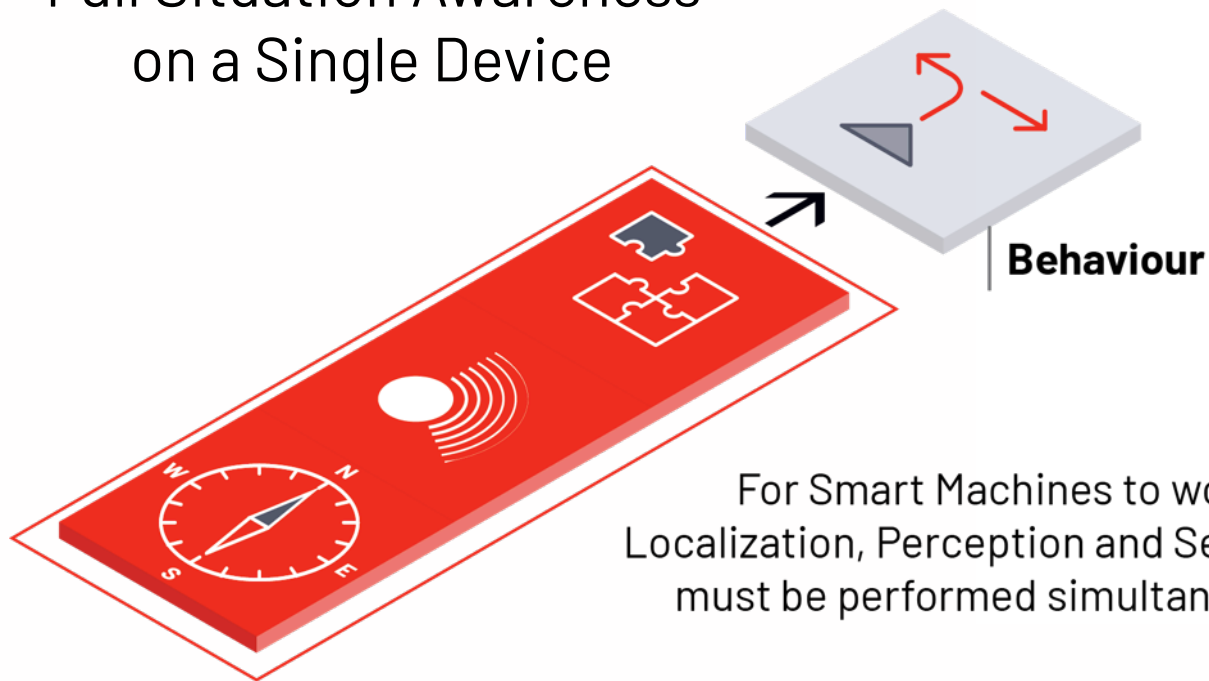


The mainstream approach



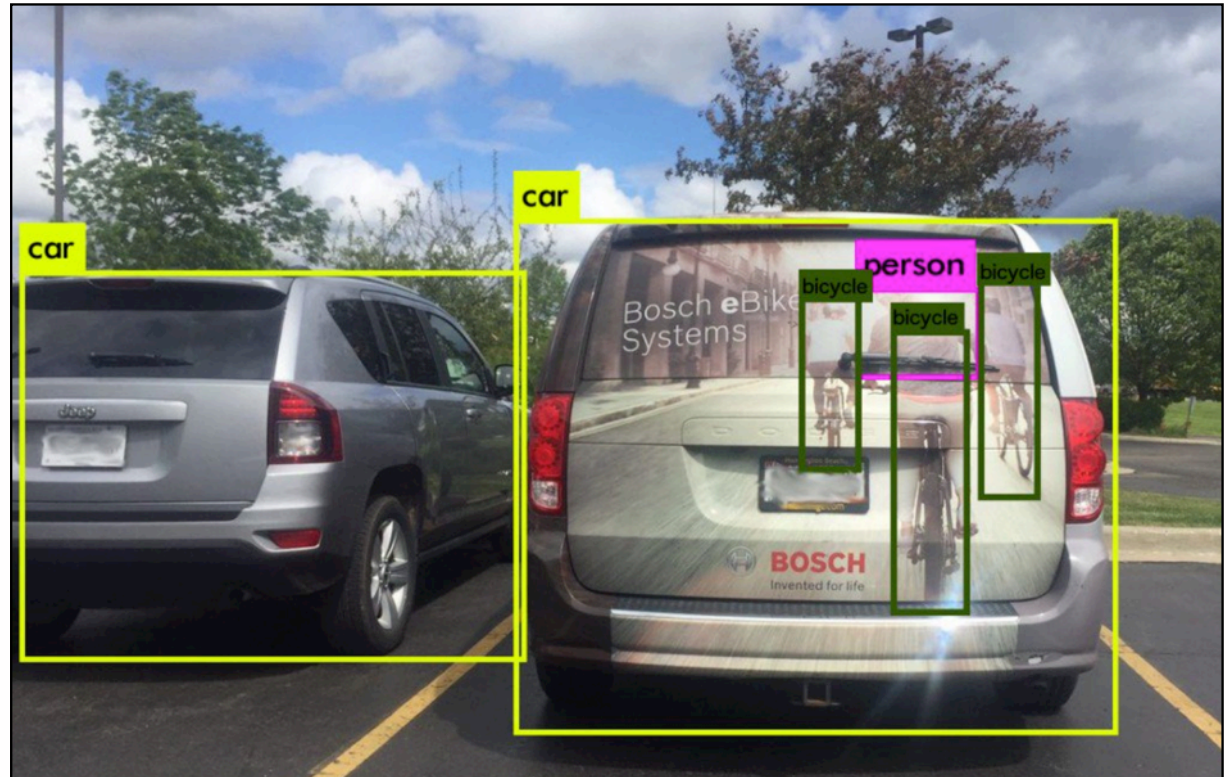
3D Semantic Camera

Full Situation Awareness
on a Single Device

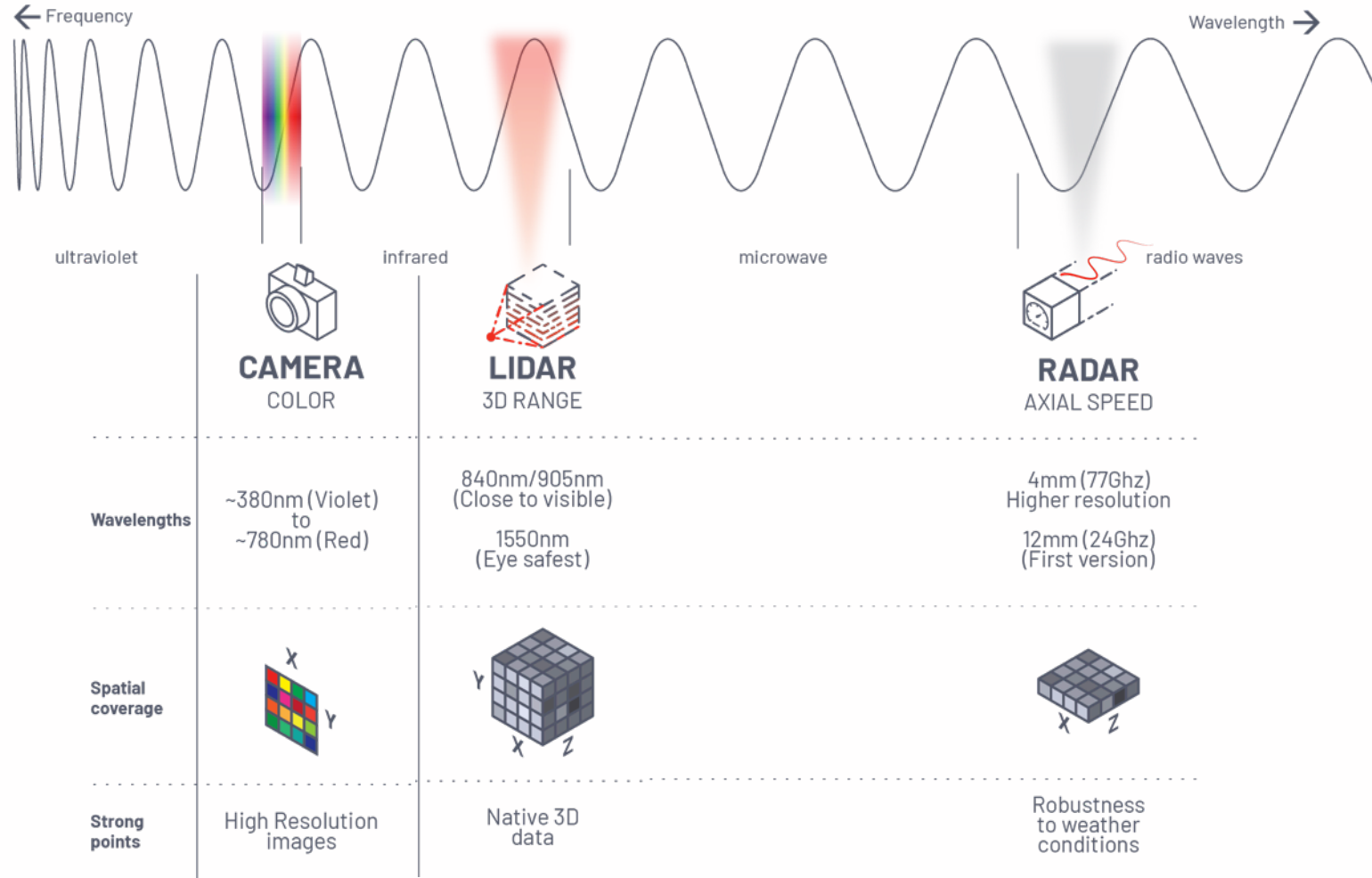


For Smart Machines to work
Localization, Perception and Semantics
must be performed simultaneously

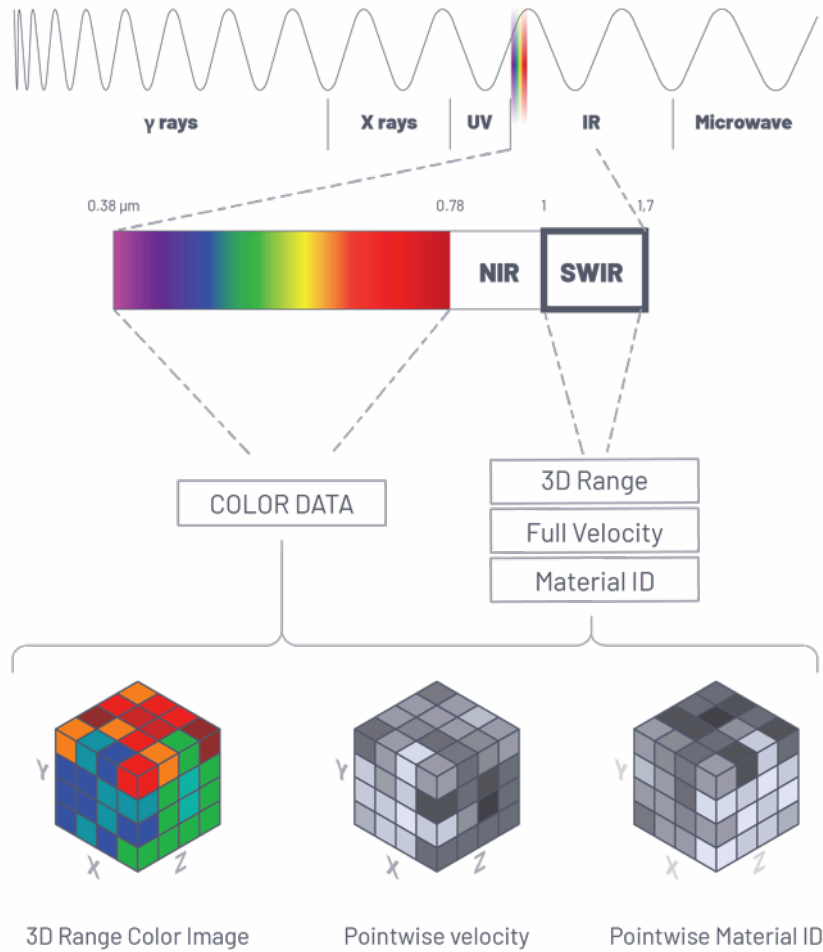
Our target is a new generation of ADAS (L2+), where **Situation Awareness** will be a key enabler



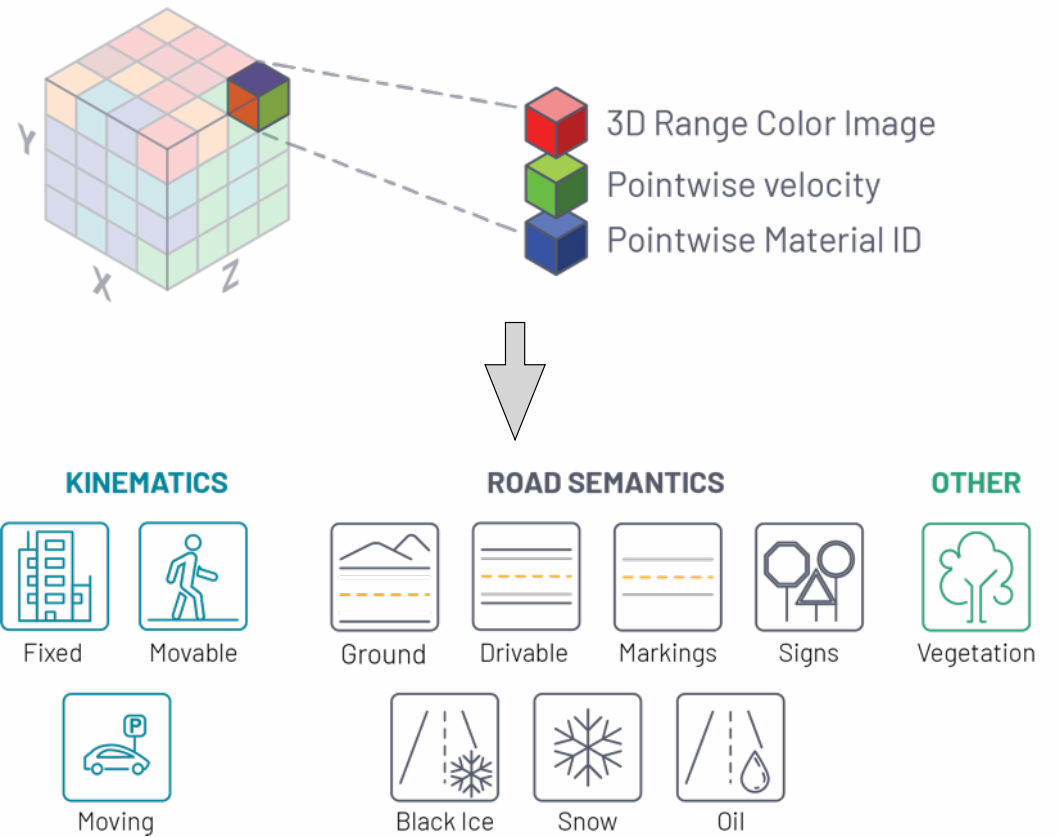
There is no perfect sensor



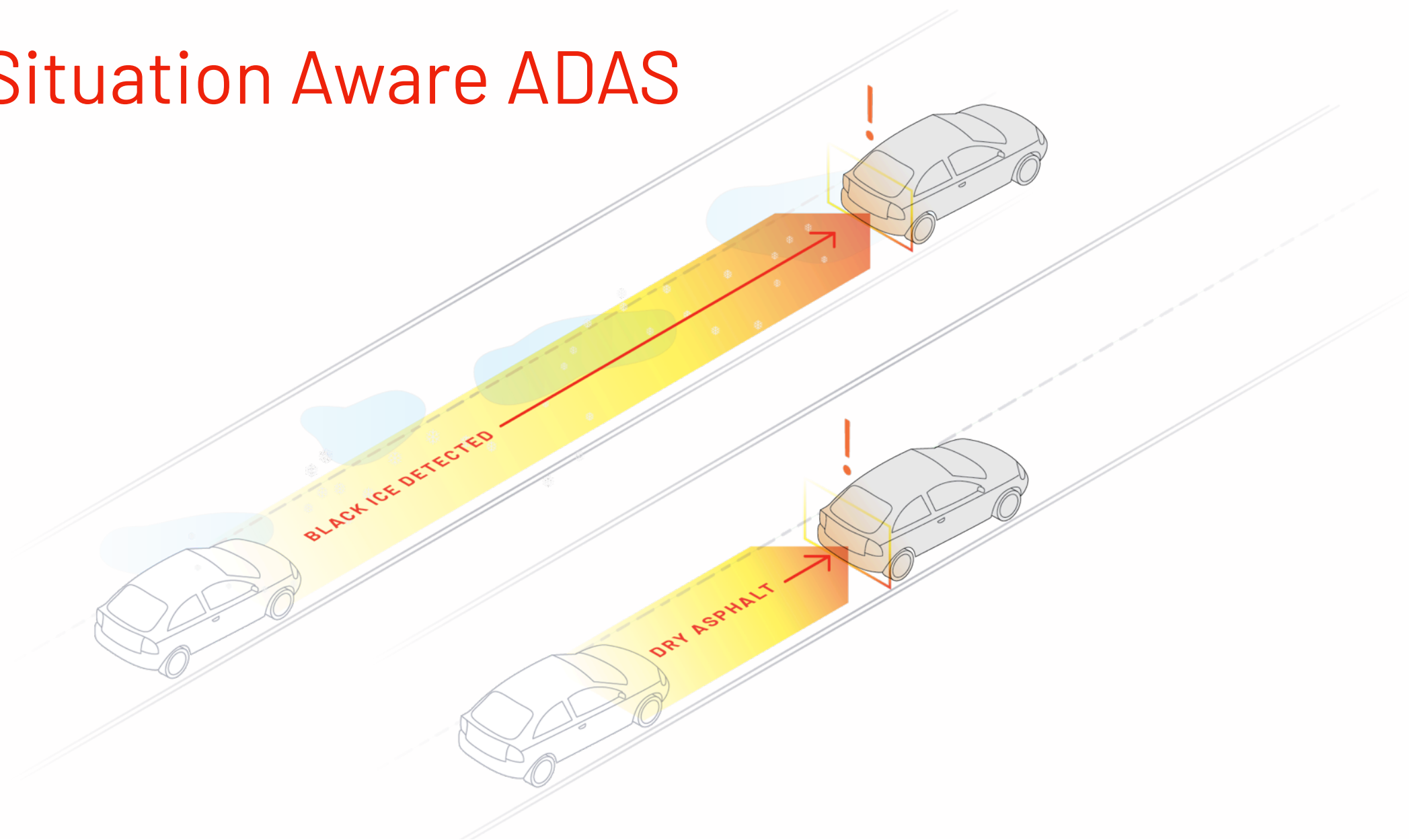
Full Reality Perception



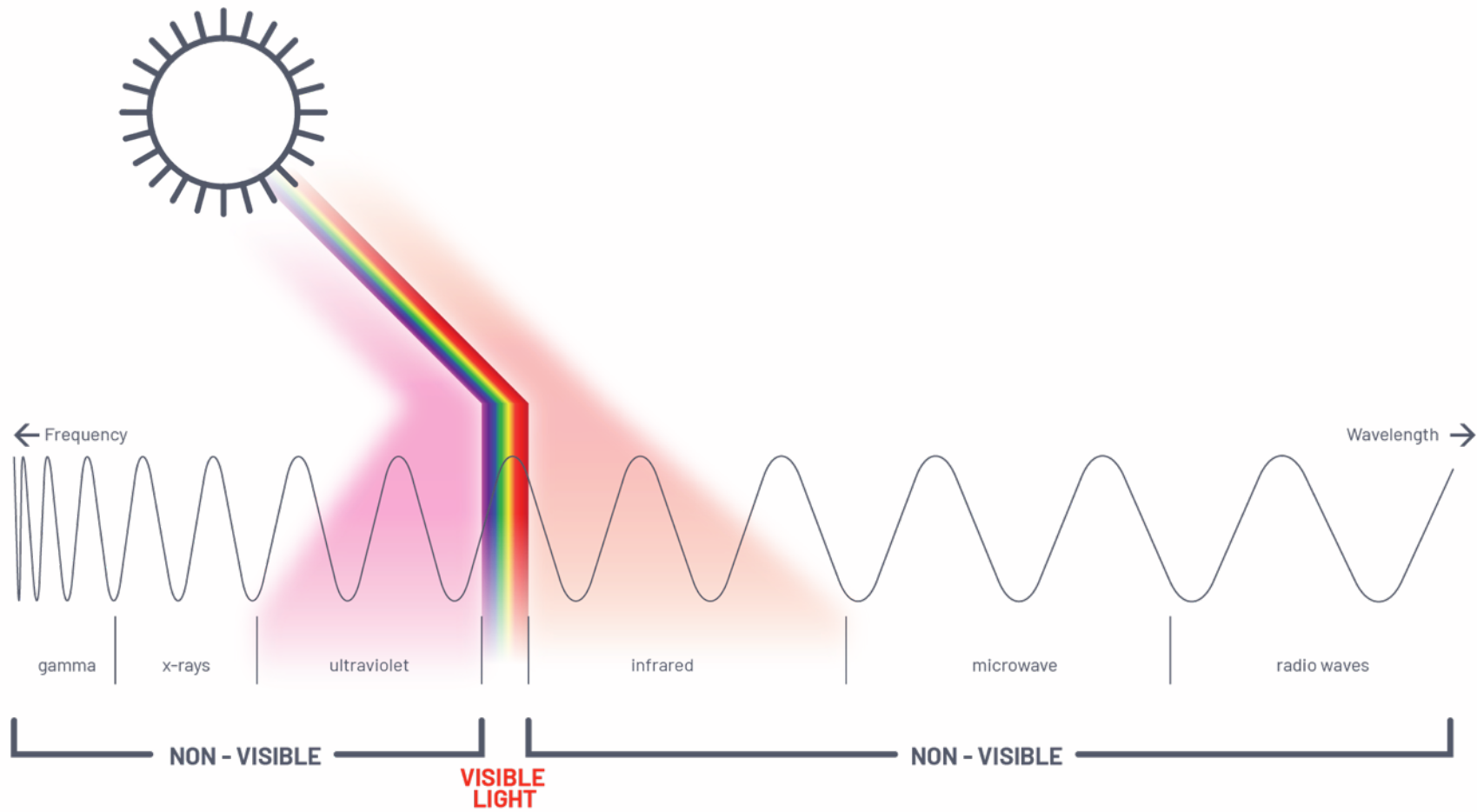
From Multi-Physics Perception to Actionable Data



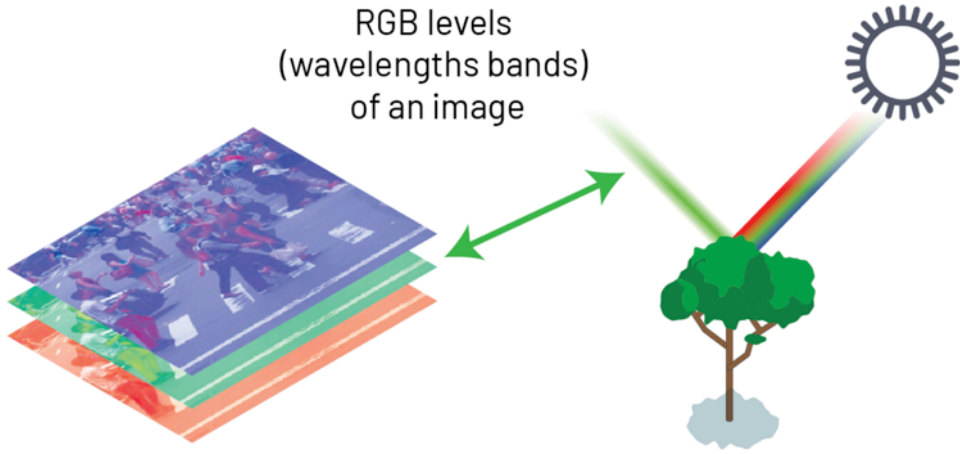
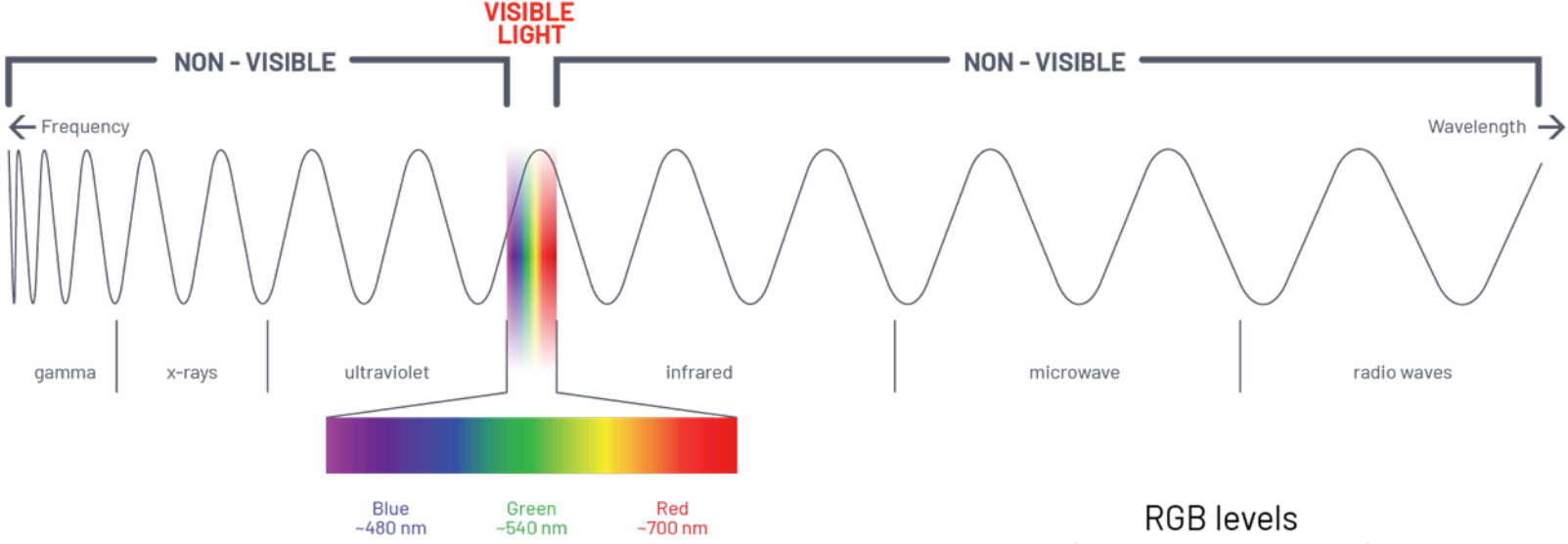
Situation Aware ADAS



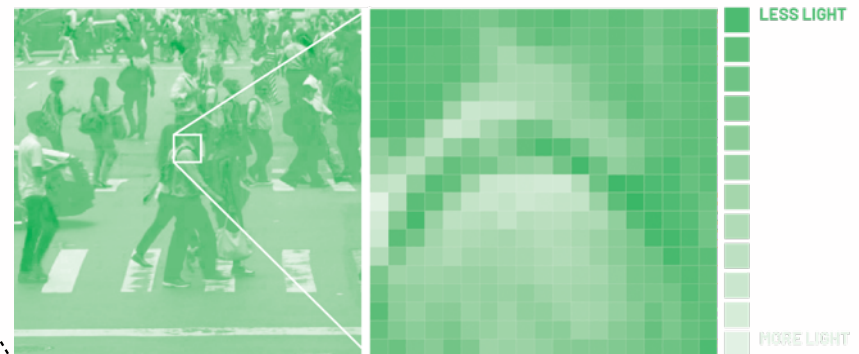
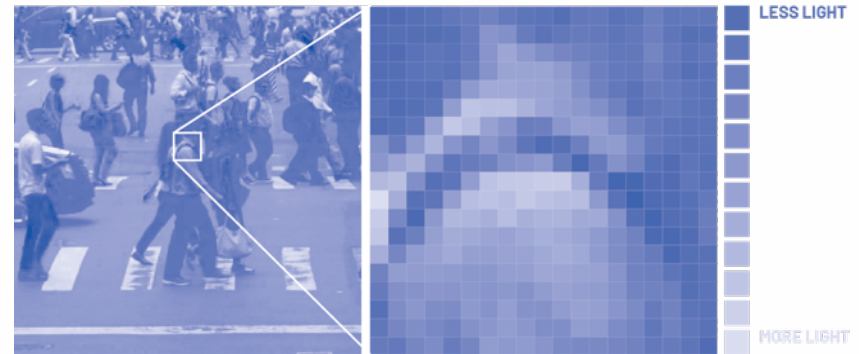
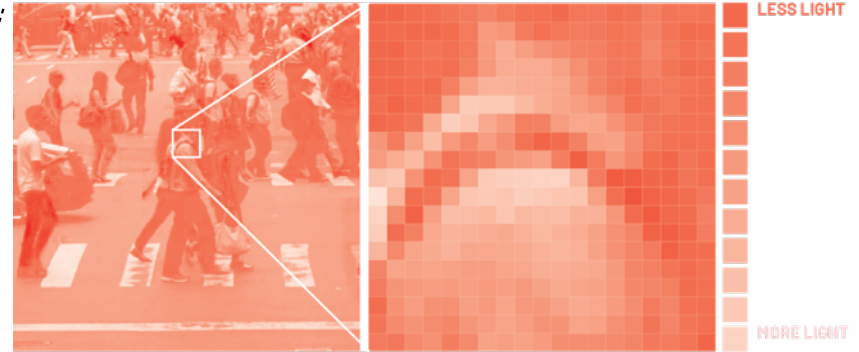
Hyperspectral Sensing



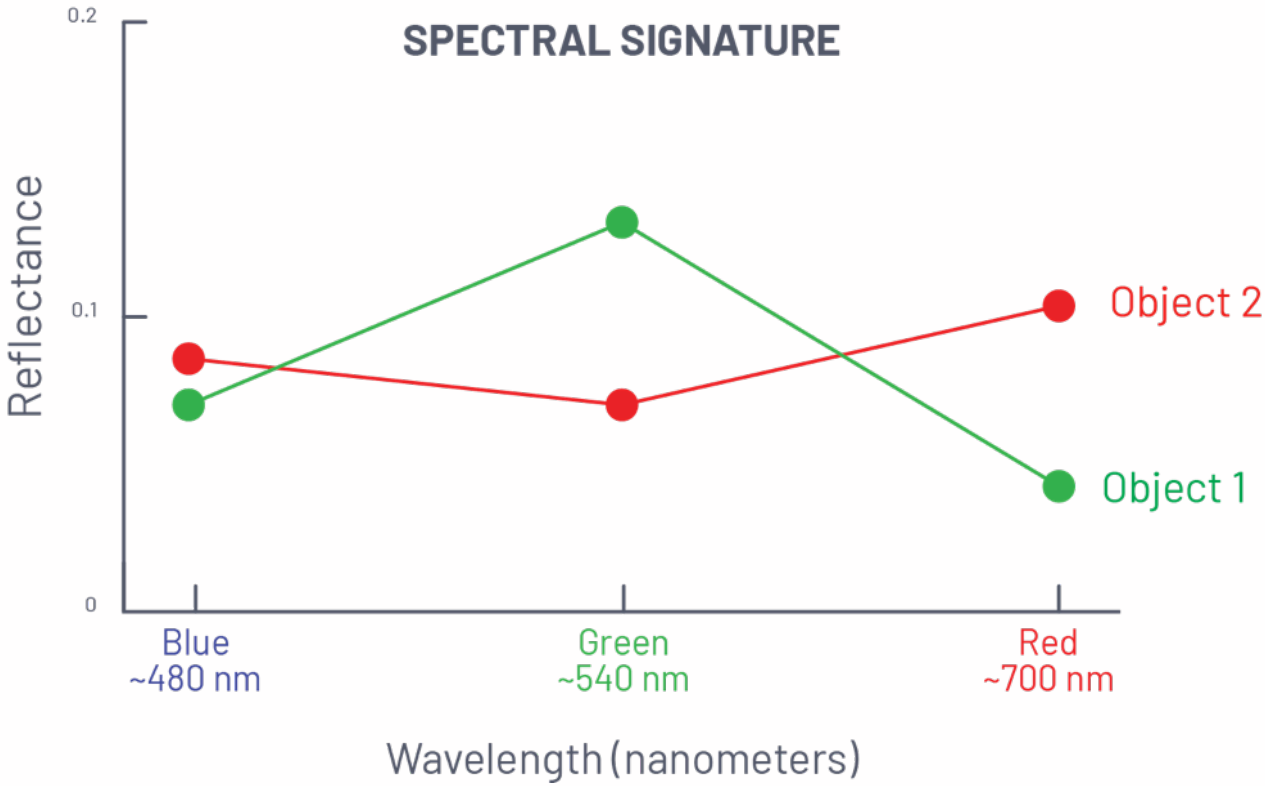
Visible spectrum



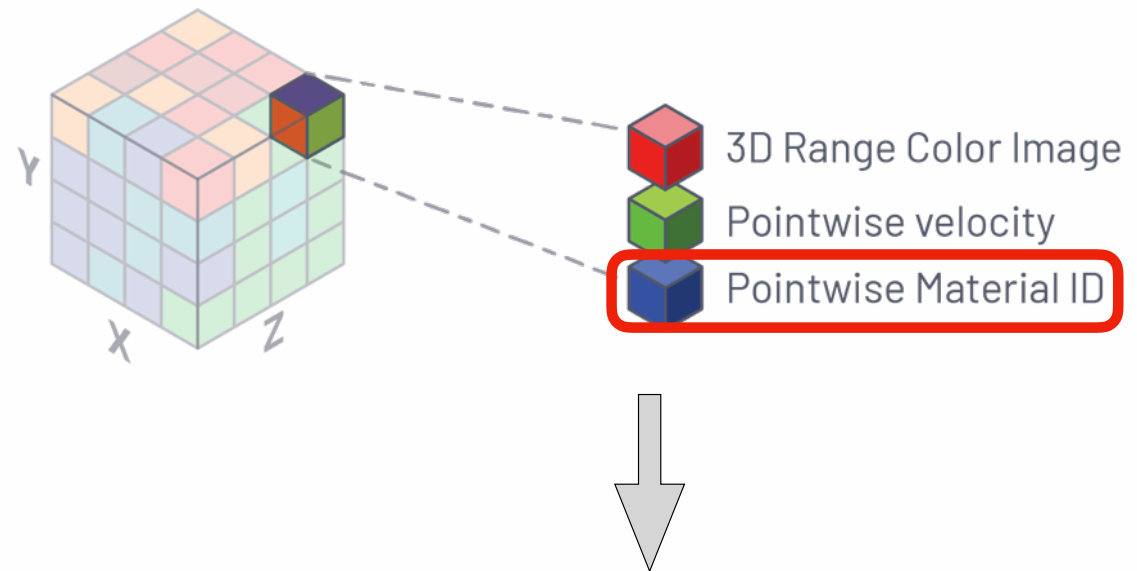
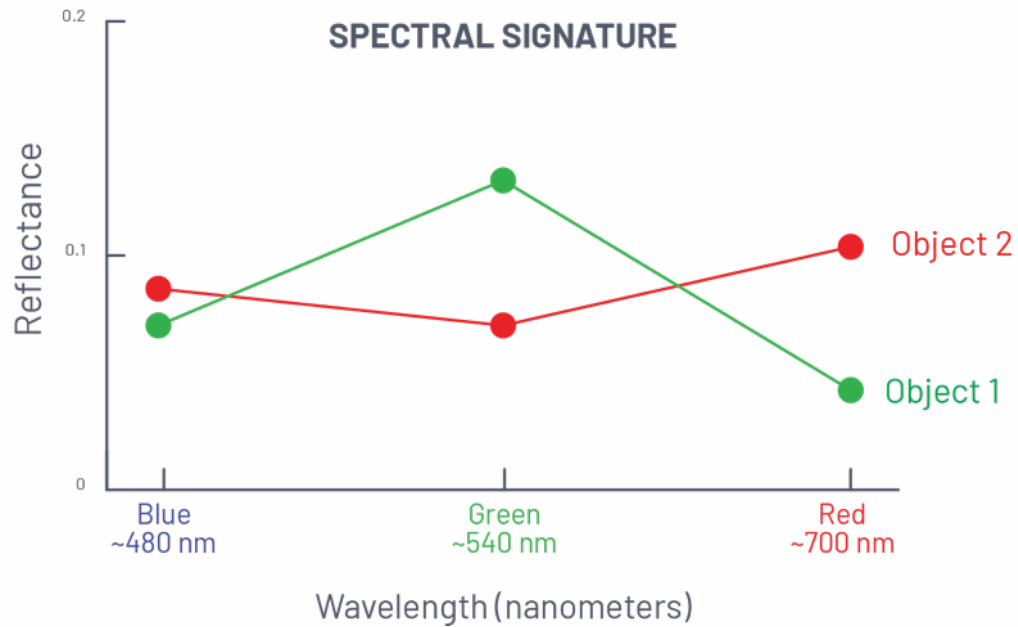
Visible spectrum



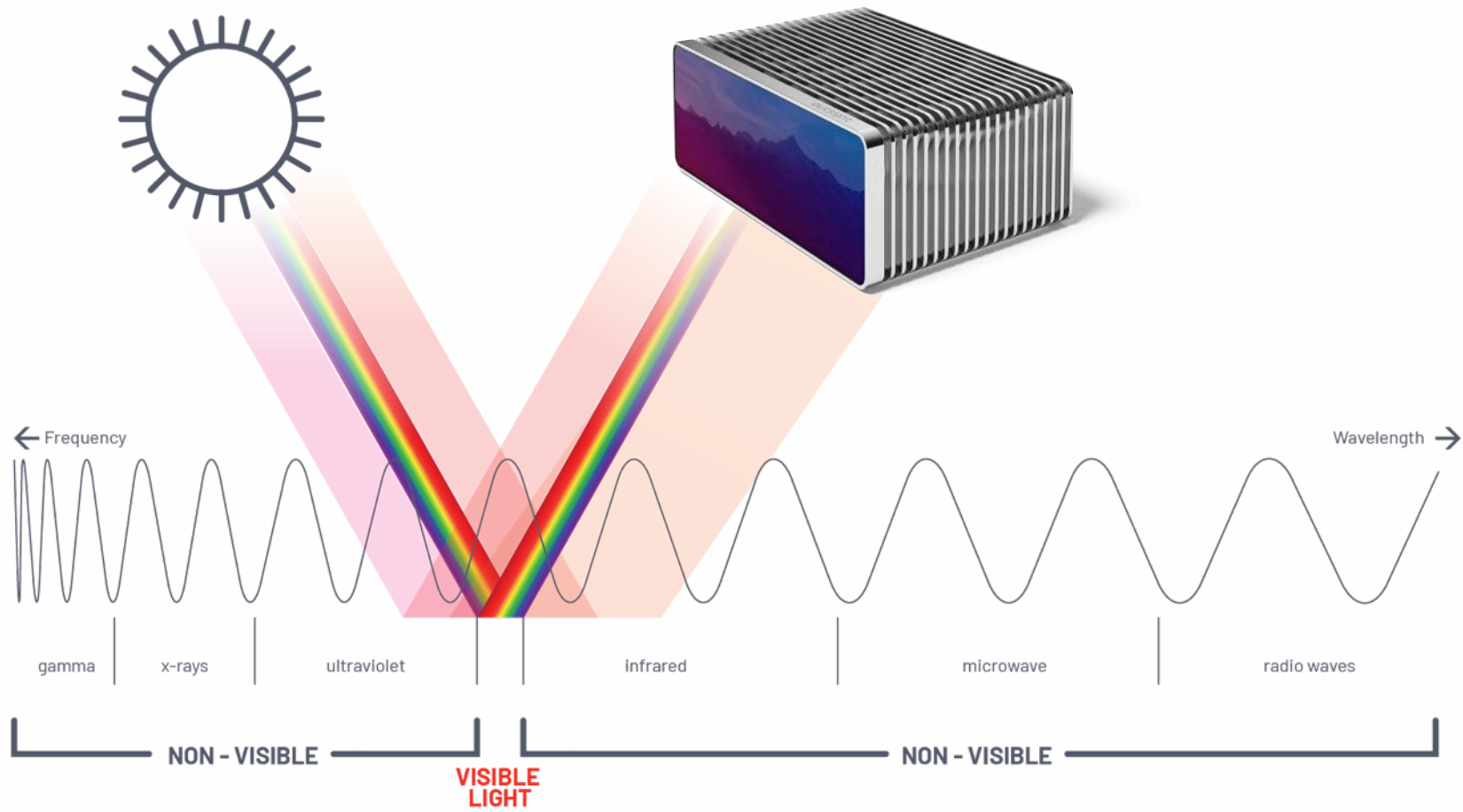
Visible spectrum



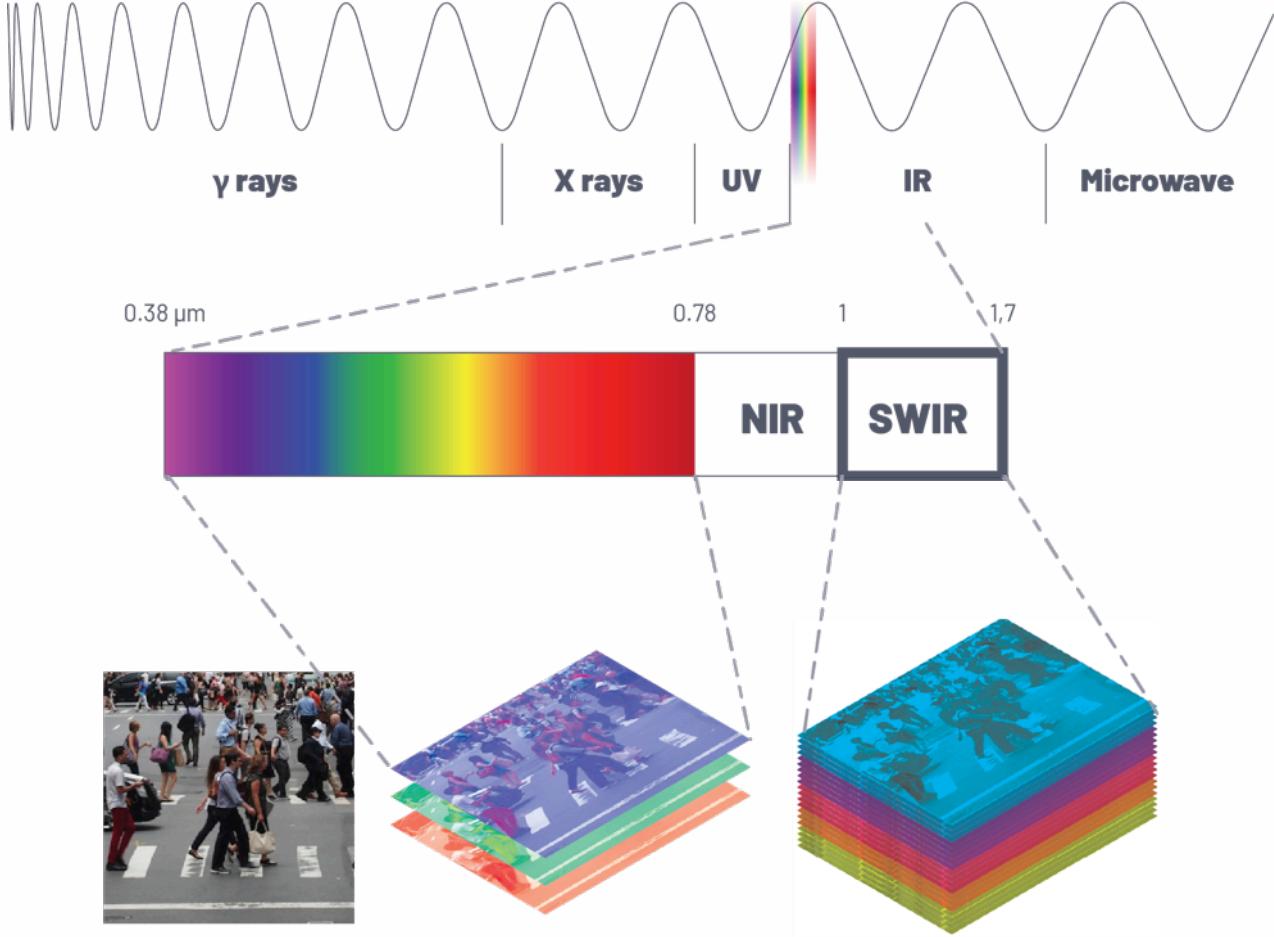
Beyond visible spectrum



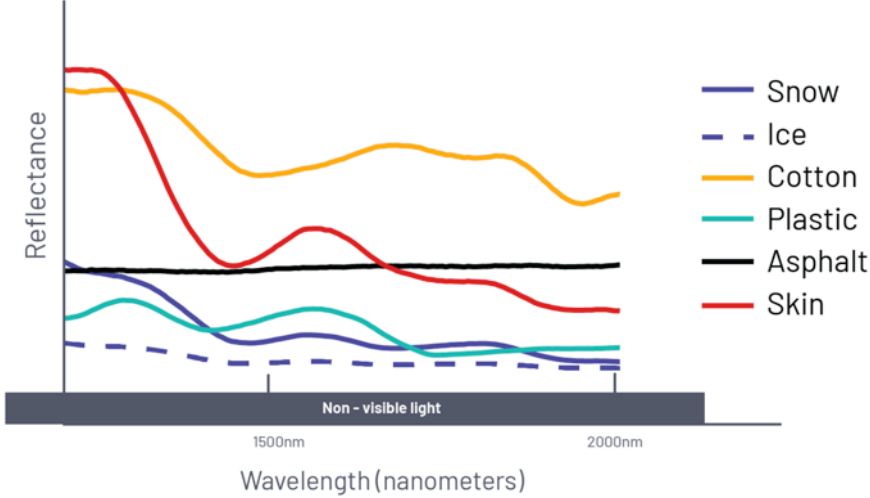
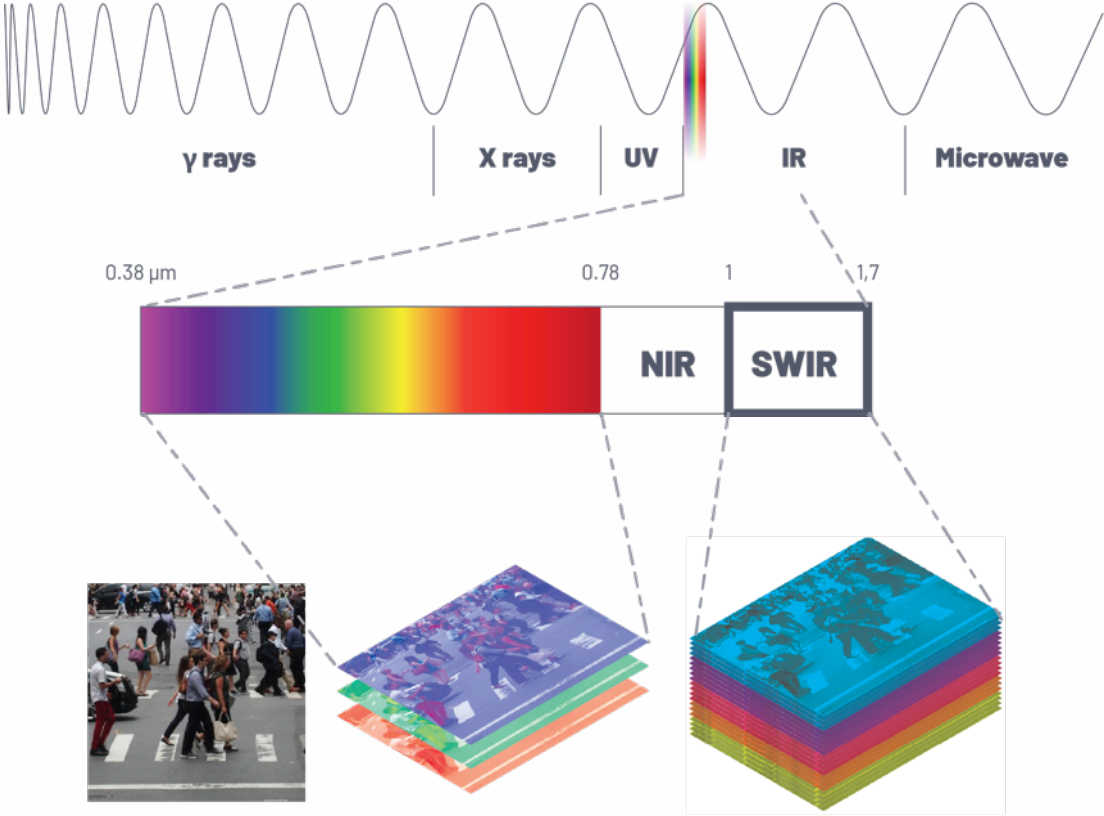
Beyond visible spectrum



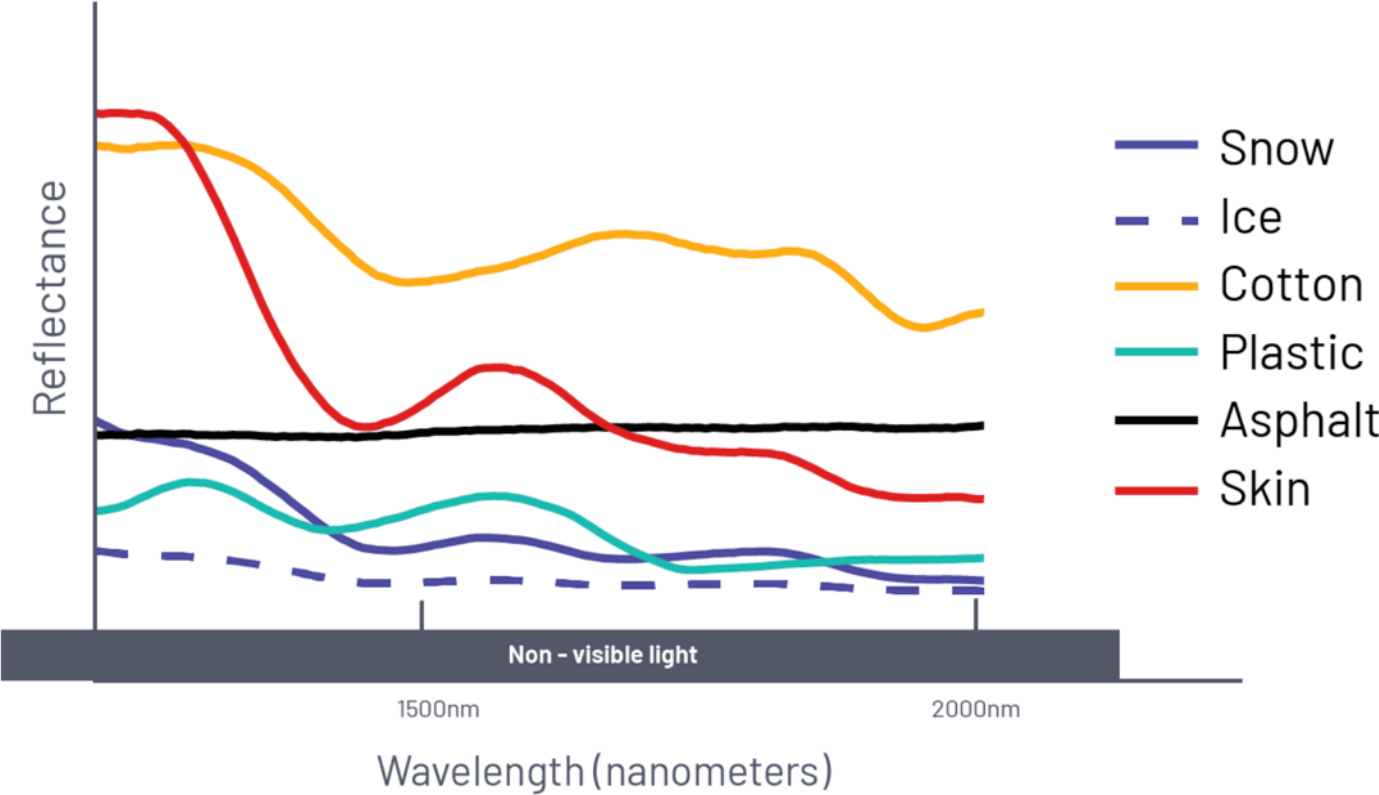
Active Hyperspectral Sensing



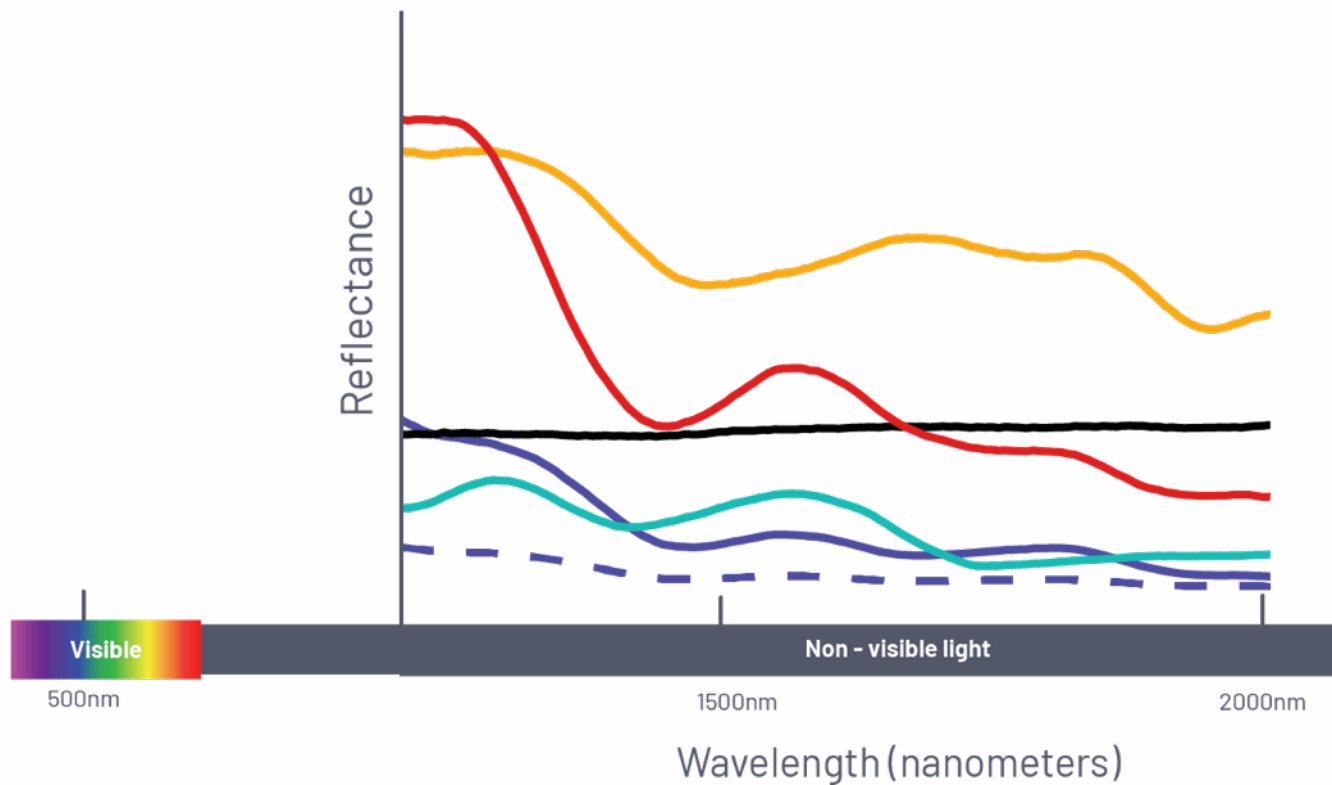
Active Hyperspectral Sensing



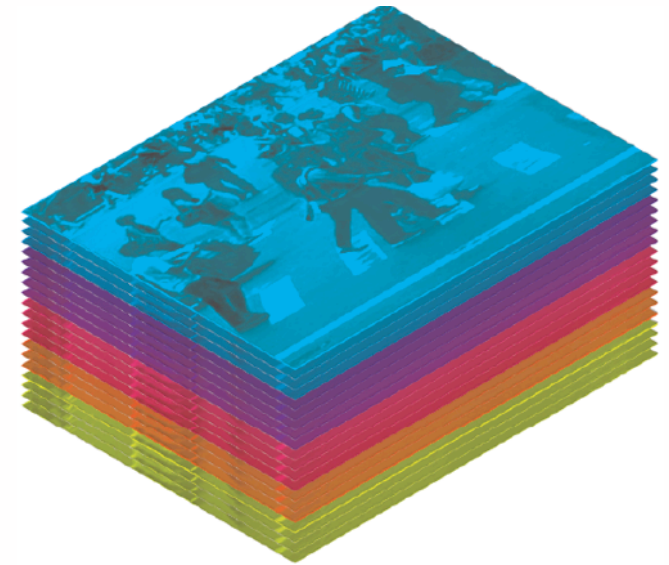
Active Hyperspectral Sensing



Hyperspectral Signature



Super-continuum Signal



Full Situation Awareness for Smart Machines



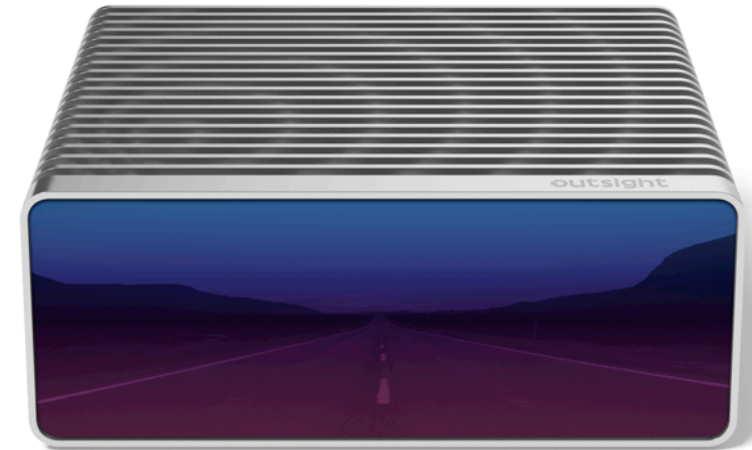
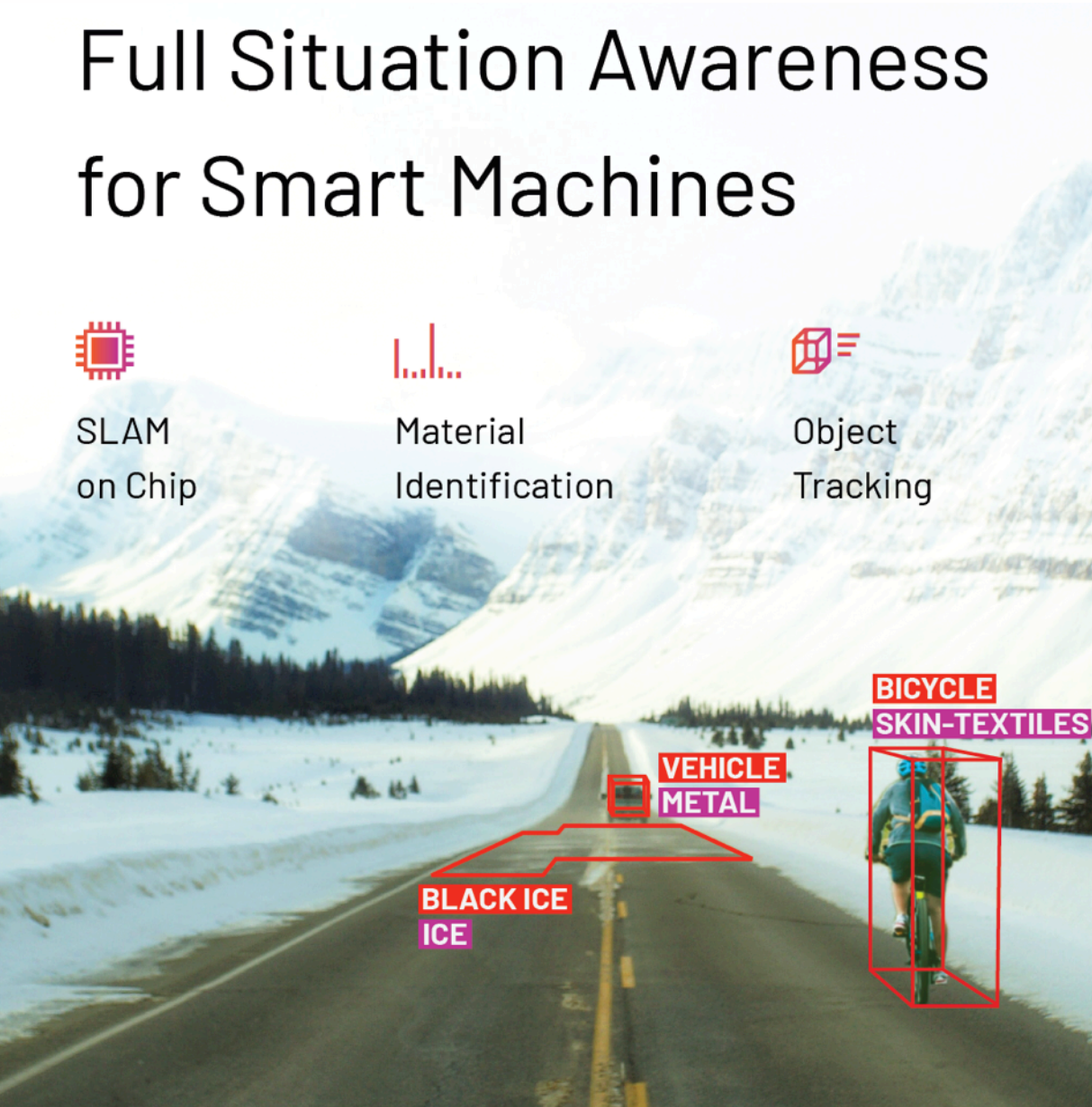
SLAM
on Chip



Material
Identification



Object
Tracking



Perception + Localization + Semantics
in a single device

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